## Listing of Claims:

This listing of the claims will replace all prior versions, listings, of claims in the application:

(currently amended) An electrochemical cell, comprising:

a renewable active metal anode, configured for supplementation of the active metal, the anode comprising a first solid state lithium metal layer and a second solid state lithium metal layer and having a thin layer of Ag, Al, Sn or other Li alloy-forming metal interposed between the first and second lithium layers:

a cathode structure comprising an electronically conductive component, an ionically conductive component, and a fluid oxidant;

an ionically conductive protective membrane on the first surface of the anode, the membrane comprising,

one or more materials configured to provide a first surface chemically compatible with the active metal of the anode in contact with the anode, and a second surface substantially impervious to and chemically compatible with the cathode structure and in contact with the cathode structure

wherein the ionically conductive protective membrane comprises a composite, the composite comprising,

a first material component in contact with the anode that is ionically conductive
and chemically compatible with the anode, the first material component comprising a
composite reaction product selected form the group consisting of Li with Cu<sub>3</sub>N, Li with red
phosphorus and Li with PbIs; and

a second material component in contact with the first material component, the second material being substantially impervious, ionically conductive and chemically compatible with the first material component and the cathode structure.

- (canceled)
- (original) The cell of claim 1, wherein the ionic conductivity of the protective membrane is at least 10<sup>-5</sup> S/cm

- 4. (withdrawn) The cell of claim 1, wherein the cathode oxidant comprises air.
- (original) The cell of claim 1, wherein the cathode oxidant comprises water.
- 6. (withdrawn) The cell of claim 1, wherein the cathode oxidant comprises hydrogen peroxide.
- 7. (original) The cell of claim 1, wherein the protective membrane is a composite laminate.
- 8. (original) The cell of claim 1, wherein the protective membrane is a graded composite,
- 9. (previously presented) The cell of claim 1, wherein the solid state lithium metal layers of the anode are selected from the group consisting of lithium and a lithium alloy.
- 10. (canceled)
- 11. (canceled)
- 12. (currently amended) The cell of claim 12, wherein the second component comprises a material selected from the group consisting of glassy or amorphous metal ion conductors, ceramic active metal ion conductors, and glass-ceramic active metal ion conductors.
- 13. (currently amended) The cell of claim 1 2, wherein the second component is an ion conductive glass-ceramic having the following composition:

Composition	mol %
P <sub>2</sub> O <sub>5</sub>	26-55%
$SiO_2$	0-15%
$GeO_2 + TiO_2$	25-50%
in which $GeO_2$	0—50%
$TiO_2$	0—50%
$ZrO_2$	0-10%
$M_2O_3$	0 < 10%
$Al_2O_3$	0-15%
$Ga_2O_3$	0-15%
$Li_2O$	3-25%

and containing a predominant crystalline phase composed of  $Li_{1+x}(M,Al,Ga)_x(Ge\ _{1\cdot y}Ti_y)_{2\cdot x}(PO_4)_3$  where  $X\leq 0.8$  and  $0\leq Y\leq 1.0$ , and where M is an element selected from the group consisting of Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm and Yb and/or and  $Li_{1+x+y}Q_xTi_{2\cdot x}Si_yP_{3\cdot y}O_{12}$  where  $0< X\leq 0.4$  and  $0< Y\leq 0.6$ , and where O is Al or Ga.

- 14-20. (canceled)
- 21. (previously presented) The cell of claim 1, wherein the bonding coat is Ag.
- 22-23. (canceled)
- 24. (currently amended) The cell of claim <u>1</u> 2, wherein the first material component comprises a composite reaction product of Li with Cu<sub>3</sub>N.
- 25. (currently amended) The cell of claim 12, wherein the first material component comprises a composite reaction product of Li with red phophorus.
- (currently amended) The cell of claim 12, wherein the first material component comprising a composite reaction product of Li with Pb12.